COSC 6377: Computer Networking
Project Proposal

Team Members:

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Project Title:

Effect of Instance Location and Network Interface on Computational Performance of a Cluster

Workshare:

- Ashutosh Kumar:
    - Will download and compile the HPL benchmark on various instances of VMs in same and different regions on AWS.
    - Will find the optimal problem size, run the benchmark, and record the performance of the instances.
- Arti Patel:
    - Will install the Message Passing Interface (MPI) implementation (probably OpenMPI).
    - Will analyse if these VM instances can see each other and run a test program through MPI.

Milestone 1 Deliverables:

1. HPL benchmark on various instances of VMs.
2. Result of the test program through MPI to confirm that the VM instances can see each other.